



a,h

```
template<class T> T max(T a,T b)
{
    return a > b ? a : b;
}
```

*FIG. 11A*

f1.cpp

```
#include "a,h"
void func 1 ( )
{
    ...
    322 i=max<int> (1, 3);
    ...
}
void func 2 ( )
{
    323 j=max<int> (4, 3);
    ...
}
```

*FIG. 11B*

f2.cpp

```
#include "a,h"
void func 3 ( )
{
    324 k=max<int>(1, 10);
    ...
}
```

*FIG. 11C*

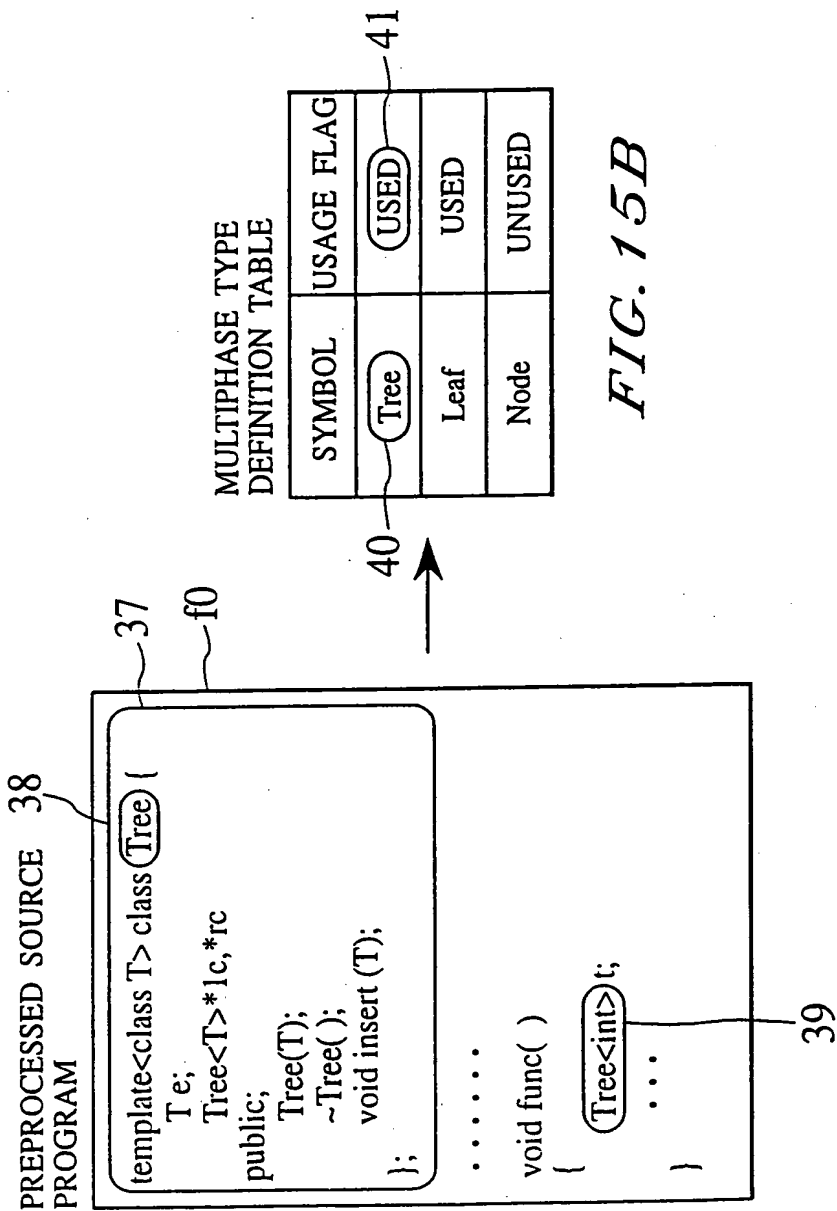


FIG. 15B

FIG. 15A

*FIG. 21A*

PREPROCESSED SOURCE FILE

```
template<class T> class Stream {
public;
    T & add_info(T &);
    void add_list(T &,int);
    void add_cell(T &);
    void add_alist(T &,int);
}
...

void func 2 ( )
{
    stream<int> s;
    stream<double> t;
    ...
    s.add_list (s.add_info(s) , 3);
}
```

*FIG. 21B*

OPTIMIZED SOURCE PROGRAM

```
class Stream_int {
public ;
    int add_info(int&);
    void add_list(int&,int);
}

class Stream_double {
public ;
    void add_alist(double&,int);
}
...

void func 2 ( )
{
    stream_int s;
    stream_double t;
    ...
    s.add_list (s.add_info(s) , 3);
}
```

MULTIPHASE TYPE DEFINITION TABLE  
(MEMBER FUNCTION INFORMATION)

SYMBOL	USAGE FLAG
Stream<int>::add_info	USED
Stream<int>::add_list	USED
Stream<int>::add_cell	UNUSED
Stream<int>::add_alist	UNUSED
Stream<int>::add_info	UNUSED
Stream<int>::add_list	UNUSED
Stream<int>::add_cell	UNUSED
Stream<int>::add_alist	USED

*FIG. 21C*